Polyblend®Plus Sanded Grout



1. Product Name

Polyblend®Plus Sanded Grout

2. Product Description

Polyblend Plus has all of the great features of original Polyblend, plus some new value-added enhancements to improve performance, finished color, and color consistency. It is now an ANSI A118.7 polymer-modified, cement-based sanded grout that produces hard, dense joints that resist shrinking, cracking, and wear. Formulated for durability, Polyblend Plus Sanded Grout accommodates 1/8″-1/2″ (3.1-12.7 mm) joints for interior or exterior installations, including floors, countertops, walls, ceilings, showers, fountains, and pools.

Key Features

- Brighter, more vivid finished color
- Enhanced color consistency
- Better resistance to efflorescence
- Meets ANSI 118.7 High Performance Grout Standard without additive
- Easy to use - Just mix with water
- Polymer fortified for hard, durable, professional results

Uses

- Use to fill joint widths 1/8" to 1/2" (3.1 to 12.7 mm)
- May be used for both floor and wall installations
- Interior and exterior applications
- Residential and commercial applications
- Countertops, tub surrounds, showers and high traffic areas
- Submerged conditions (swimming pools, spas, water features and fountains)

Composition of Product

Polyblend® Plus Sanded Grout is a dry, Portland cement based grout with silica sand, inorganic aggregates and chemicals.

Benefits of Product in the Installation

- Hard, durable grout joints
- Resists shrinking, cracking, powdering and wear

Limitations to the Product

- Should not be installed when ambient or surface temperature is lower than 50°F (10°C) or higher than 100°F (38°C).
- Some ceramic, glass, metal, marble or stone tiles can be scratched or damaged by the silica aggregate filler. Perform a test on a small area prior to use. Polyblend® Plus Non-Sanded Grout may be appropriate for joints up to 1/8" or for tile not suited for sanded grout.
- Tile or stone with high absorption, surfaces that are porous or rough, textured surfaces and some types of porcelain tile may require sealing prior to grouting to prevent possible staining. Use Aqua Mix® Grout Release or TileLab® SurfaceGard® Sealer to prevent staining when required.
- Color variation can occur due to tile type, tile porosity, jobsite and climatic conditions, application and cleaning techniques. Variation can be minimized by following directions and using as little water as possible for cleanup.
- A CUSTOM grout color card is truest representation of the grout formula. Refer to the latest CUSTOM grout color card to choose a color. Perform a mockup to determine suitability.Various lighting types and conditions will affect the final grout and tile colors' appearance.
- Not for use in either industrial applications or in areas subjected to harsh or continuous chemicals, high heat or high-pressure cleaning. For heavy industrial tile installations, use CEG-IG 100% Solids Epoxy Grout.
- Chemicals in salt-based pool filtration systems can cause a reaction with blue, green and red grouts. Contact Technical Services for recommendations.
- Not for use in movement joints or changes of plane in the tile installation. In these areas, use an appropriate caulk or sealant such as Commercial 100% Silicone Sealant or Ceramic Tile Caulk.

Packaging

Available in 2 sizes:

- 7 lb (3.17 kg) box
- 25 lb (11.34 kg) bag

25 lb bag available in 40 colors. 7 lb box available in 15 colors. Color matching is available.

3. Technical Data

Applicable Standards

American National Standards Institute (ANSI) ANSI A108.10, A118.6 & A118.7 of the American National Standards for the Installation of Ceramic Tile ASTM International (ASTM)

- ASTM C109 Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or (50-mm) Cube Specimens)
- ASTM C531 Standard Test Method for Linear Shrinkage
- ASTM C580 Standard Test method for Flexural Strength
- ISO 13007-3

Technical Chart

Property	Test Method	Requirement	Typical Results
Pot Life	ANSI A118.7		1 - 2 Hours
28 Day Shrinkage	Section 3.3	< 0.20%	< 0.20%
28 Day Water Absorption	Section 3.4	< 5%	< 5%
1 Day Compressive Strength	Section 3.5	> 500 psi (35.2 kg/cm sq)	> 500 psi (35.2 kg/cm sq)
28 Day Compressive Strength	Section 3.5	> 3000 psi (210.9 kg/cm sq)> 3000 psi	> 3000 psi (210.9 kg/cm sq)
28 Day Tensile Strength	Section 3.6	> 500psi (35.2 kg/cm sq)	> 500psi (35.2 kg/cm sq)
28 Day Flexural Strength	Section 3.7	> 1000psi (70.3 kg/cm sq)	> 1000psi (70.3 kg/cm sq)

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Environmental Consideration

Custom® Building Products is committed to environmental responsibility in both products produced and in manufacturing practices. Use of this product can contribute towards LEED® v3 certification:

- Up to 2 points towards MR Credit 5, Regional Materials
- Up to 1 point towards IEQ Credit 4.1, LowEmittingLow Emitting Materials - Adhesives & Sealants

4. Instructions

General Surface Prep

USE CHEMICAL-RESISTANT GLOVES, such as nitrile, when handling product.

Tile or stone must be firmly bonded to a sound substrate, and setting material must be cured a minimum 24-48 hours before cement grout is applied, unless rapid-setting mortars are used. See the corresponding data sheet for the bonding mortars used in your application. Remove spacers and ensure that the grout joints are uniform in depth and width and free of loose debris, contaminants and excess mortar. Use TileLab® SurfaceGard® Sealer or Aqua Mix® Grout Release to seal tile or stone subject to staining or when using a grout that contrasts with the color of the tile.

Mixing Ratios

- Mix 2 qt (1.89 L) clean water to 25 lb (11.34 kg) grout.
- Mix 1 pt (.473 L) clean water to 7 lb (3.17 kg) grout.

Mixing Procedures

When installing more than 1 container of grout at a time, blend dry powders prior to mixing with water. Mix with a trowel or low speed mixer (less than 300 rpm) to achieve a smooth, lump-free consistency (approximately 3 minutes). Let the mixture stand (slake) for 5 minutes, and then remix and use. Periodically remix to keep the mixture workable, but do not add water, which can weaken the grout, cause color variation and possible cause shrinkage, cracks and pinholes. Discard grout when it becomes too stiff to work.

Application of Product

Installation must conform to ANSI A108.10. Lightly dampen absorptive, highly porous tile with clean, cool water, but leave no standing water in the joints. Holding a rubber grout float at a 45° angle, completely fill the joints. Holding the edge of the float at a 90° angle, remove excess grout. At 70° F, do not spread more grout than can be cleaned within 30 minutes of the grout firming and use as little water as possible for grout clean-up (higher temperatures may shorten this time frame).

Using a damp, small pore grout sponge in a circular motion, smooth and level joints and remove excess grout. Change the water and rinse the sponge frequently. Haze can be removed after 3 hours with cheesecloth or wrung-out sponge. If haze persists, the installation can be washed after three days with Aqua Mix NanoScrub or after ten days with Aqua Mix® Sulfamic Acid Crystals, TileLab® Sulfamic Acid Cleaner or Aqua Mix® Cement Grout Haze Remover. Perform a test in an inconspicuous area prior to complete application. Movement joints are required for perimeters and other changes of plane in all installations. See TCNA Detail EJ171 for recommendations.

Curing of Product

Curing time is affected by ambient and surface temperatures and humidity. For exterior applications, it is recommended that the installation is misted periodically with clean, cool water for 3 days.

Exterior applications must be protected from rain, snow and other wet conditions for at least 7 days with temperature above 50° F (10° C). If inclement weather is expected, protect the work area with tenting at least 1 foot (30 cm) above the finished surface to allow air flow.

Enclose and protect installations and maintain >50° F (10° C) temperatures for at least 72 hours for proper cure.

Sealing of Grout

If the use of a sealer is desired for extra protection, apply a penetrating sealer such as AquaMix® Sealer's Choice Gold or AquaMix Ultra-Solv® or TileLab® Surface Guard. Cleaning of equipment Clean tools and hands with water before the material dries.

Cleaning of Equipment

Clean tools and hands with water before the material dries

Health Precautions

This product contains Portland cement. Avoid eye contact or prolonged contact with skin. Wash thoroughly after handling. If eye contact occurs, flush with water for 15 minutes and consult a physician. Use with adequate ventilation; do not breathe dust and wear a NIOSH approved respirator. If ingested, do not induce vomiting; call a physician immediately.

Conformance to Building Codes

Installation must comply with the requirements of all applicable local, state and federal code jurisdictions.

5. Size & Availability

Location	Grout Color	Item Code	Size	Package	Item Code	Size	Package
USA	#09 NATURAL GRAY	PBPG097-4	7 lb (3.17 kg)	Box	PBPG0925	25 lb (11.34 kg)	Bag
USA	#10 ANTIQUE WHITE				PBPG1025	25 lb (11.34 kg)	Bag
USA	#11 SNOW WHITE	PBPG117-4	7 lb (3.17 kg)	Box	PBPG1125	25 lb (11.34 kg)	Bag
USA	#19 PEWTER	PBPG197-4	7 lb (3.17 kg)	Box	PBPG1925	25 lb (11.34 kg)	Bag
USA	#52 TOBACCO BROWN				PBPG5225	25 lb (11.34 kg)	Bag
USA	#59 SADDLE BROWN				PBPG5925	25 lb (11.34 kg)	Bag
USA	#60 CHARCOAL	PBPG607-4	7 lb (3.17 kg)	Box	PBPG6025	25 lb (11.34 kg)	Bag
USA	#95 SABLE BROWN				PBPG9525	25 lb (11.34 kg)	Bag
USA	#105 EARTH				PBPG10525	25 lb (11.34 kg)	Bag
USA	#115 PLATINUM	PBPG1157-4	7 lb (3.17 kg)	Box	PBPG11525	25 lb (11.34 kg)	Bag
USA	#122 LINEN	PBPG1227-4	7 lb (3.17 kg)	Box	PBPG12225	25 lb (11.34 kg)	Bag
USA	#135 MUSHROOM				PBPG13525	25 lb (11.34 kg)	Bag
USA	#145 LIGHT SMOKE				PBPG14525	25 lb (11.34 kg)	Bag
USA	#165 DELOREAN GRAY	PBPG1657-4	7 lb (3.17 kg)	Box	PBPG16525	25 lb (11.34 kg)	Bag
USA	#172 URBAN PUTTY				PBPG17225	25 lb (11.34 kg)	Bag
USA	#183 CHATEAU				PBPG18325	25 lb (11.34 kg)	Bag
USA	#185 NEW TAUPE				PBPG18525	25 lb (11.34 kg)	Bag
USA	#186 KHAKI				PBPG18625	25 lb (11.34 kg)	Bag
USA	#333 ALABASTER				PBPG33325	25 lb (11.34 kg)	Bag
USA	#335 WINTER GRAY				PBPG33525	25 lb (11.34 kg)	Bag
USA	#370 DOVE GRAY				PBPG37025	25 lb (11.34 kg)	Bag
USA	#380 HAYSTACK	PBPG3807-4	7 lb (3.17 kg)	Box	PBPG38025	25 lb (11.34 kg)	Bag

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USA	#381 BRIGHT WHITE	PBPG3817-4	7 lb (3.17 kg)	Box	PBPG38125	25 lb (11.34 kg)	Bag
USA	#382 BONE	PBPG3827-4	7 lb (3.17 kg)	Box	PBPG38225	25 lb (11.34 kg)	Bag

USA	#386 OYSTER GRAY	PBPG3867-4	7 lb (3.17 kg)	Box	PBPG38625	25 lb (11.34 kg)	Bag
USA	#540 TRUFFLE				PBPG54025	25 lb (11.34 kg)	Bag
USA	#541 WALNUT				PBPG54125	25 lb (11.34 kg)	Bag
USA	#542 GRAYSTONE				PBPG54225	25 lb (11.34 kg)	Bag
USA	#543 DRIFTWOOD				PBPG54325	25 lb (11.34 kg)	Bag
USA	#544 ROLLING FOG	PBPG5447-4	7 lb (3.17 kg)	Box	PBPG54425	25 lb (11.34 kg)	Bag
USA	#545 BLEACHED WOOD				PBPG54525	25 lb (11.34 kg)	Bag
USA	#546 CAPE GRAY				PBPG54625	25 lb (11.34 kg)	Bag
USA	#640 ARCTIC WHITE	PBPG6407-4	7 lb (3.17 kg)	Box	PBPG64025	25 lb (11.34 kg)	Bag
USA	#641 COOL WHITE				PBPG64125	25 lb (11.34 kg)	Bag
USA	#642 ASH				PBPG64225	25 lb (11.34 kg)	Bag
USA	#643 WARM GRAY				PBPG64325	25 lb (11.34 kg)	Bag
USA	#644 SHADOW				PBPG64425	25 lb (11.34 kg)	Bag
USA	# 645 STEEL BLUE				PBPG64525	25 lb (11.34 kg)	Bag
USA	#646 COFFEE BEAN	PBPG6467-4	7 lb (3.17 kg)	Box	PBPG64625	25 lb (11.34 kg)	Bag
USA	#647 BROWN VELVET	PBPG6477-4	7 lb (3.17 kg)	Box	PBPG64725	25 lb (11.34 kg)	Bag
USA - Special Order	All 40 colors				PBGXXX50€,€,	50 lb (22.68 kg)	Bag

Location	Grout Color	Item Code	Size	Package	Item Code	Size	Package
Canada	#09 NATURAL GRAY	CPBPG097-4	7 lb (3.17 kg)	Box	CPBPG0925	25 lb (11.34 kg)	Bag
Canada	#10 ANTIQUE WHITE				CPBPG1025	25 lb (11.34 kg)	Bag
Canada	#11 SNOW WHITE	CPBPG117-4	7 lb (3.17 kg)	Box	CPBPG1125	25 lb (11.34 kg)	Bag
Canada	#19 PEWTER	CPBPG197-4	7 lb (3.17 kg)	Box	CPBPG1925	25 lb (11.34 kg)	Bag
Canada	#52 TOBACCO BROWN				CPBPG5225	25 lb (11.34 kg)	Bag
Canada	#59 SADDLE BROWN				CPBPG5925	25 lb (11.34 kg)	Bag
Canada	#60 CHARCOAL	CPBPG607-4	7 lb (3.17 kg)	Box	CPBPG6025	25 lb (11.34 kg)	Bag
Canada	#95 SABLE BROWN				CPBPG9525	25 lb (11.34 kg)	Bag
Canada	#105 EARTH				CPBPG10525	25 lb (11.34 kg)	Bag
Canada	#115 PLATINUM	CPBPG1157-4	7 lb (3.17 kg)	Box	CPBPG11525	25 lb (11.34 kg)	Bag
Canada	#122 LINEN	CPBPG1227-4	7 lb (3.17 kg)	Box	CPBPG12225	25 lb (11.34 kg)	Bag
Canada	#135 MUSHROOM				CPBPG13525	25 lb (11.34 kg)	Bag
Canada	#145 LIGHT SMOKE				CPBPG14525</		

Related Products

Ceramic Tile Caulk
Commercial 100% Silicone Sealant
TileLab® SurfaceGard® Sealer
StainBlocker for Grout
Polyblend®Plus Non-Sanded Grout

Coverage Chart

For 25 lb. bag of Polyblend in ft² (m²) per bag

Tile Size	**Joint Width**				
Width x Length x Thickness	**1/8" (3 mm)**	**3/16" (4.8 mm)**	**1/4" (6.3 mm)**	**3/8" (9.5 mm)**	**1/2" (13 mm)**
1" x 1" x 1/4" (2.5 x 2.5 x .64 cm)	54 ft² (5 m²)	40 ft² (3.7 m²)	33 ft² (3.1 m²)	27 ft² (2.5 m²)	24 ft² (2.2 m²)
2" x 2" x 1/4" (5 x 5 x .64 cm)	96 ft² (8.9 m²)	68 ft² (6.3 m²)	54 ft² (5.0 m²)	40 ft² (3.7 m²)	33 ft² (3.1 m²)
3" x 3" x 1/4" (7.6 x 7.6 x .64 cm)	138 ft² (12.9 m²)	96 ft² (8.9 m²)	74 ft² (7 m²)	54 ft² (5 m²)	43 ft² (4 m²)

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4.25" x 4.25" x 1/4" (10.8 x 10.8 x .64 cm)	192 ft² (17.8 m²)	131 ft² (12.2 m²)	101 ft² (9.4 m²)	71 ft² (6.6 m²)	56 ft² (5.2 m²)
6" x 6" x 1/4" (15.2 x 15.2 x .64 cm)	266 ft² (24.7 m²)	181 ft² (16.8 m²)	139 ft² 12.9 m²)	96 ft² (8.9 m²)	75 ft² (7.0 m²)
8" x 8" x 3/8" (20.3 x 20.3 x 1 cm)	234 ft² (21.7 m²)	158 ft² (14.7 m²)	121 ft² (11.2 m²)	83 ft² (7.7 m²)	64 ft² (6 m²)
12" x 12" x 3/8" (30.5 x 30.5 x 1 cm)	348 ft² (32.3 m²)	234 ft² (21.7 m²)	177 ft² (16.5 m²)	121 ft² (11.2 m²)	92 ft² (8.6 m²)
16" x 16" x 3/8" (40.6 x 40.6 x 1 cm)	462 ft² (42.8 m²)	310 ft² (28.8 m²)	234 ft² (21.7 m²)	158 ft² (14.7 m²)	121 ft² (11.2 m²)
18" x 18" x 3/8" (45.7 x 45.7 x 1 cm)	518 ft² (48.1 m²)	348 ft² (32.3 m²)	262 ft² (24.4 m²)	177 ft² (16.5 m²)	135 ft² (12.5 m²)
20" x 20" x 3/8" (50.8 x 50.8 x 1 cm)	574 ft² (53.4 m²)	385 ft² (35.8 m²)	291 ft² (27 m²)	196 ft² (18.2 m²)	149 ft² (13.8 m²)
24" x 24" x 3/8" (61 x 61 x 1 cm)	688 ft² (63.9 m²)	461 ft² (42.8 m²)	348 ft² (32.3 m²)	234 ft² (21.7 m²)	177 ft² (16.5 m²)
6" x 24" x 3/8" (15.2 x 61 x 1 cm)	279 ft² (26 m²)	189 ft² (17.5 m²)	143 ft² (13.3 m²)	98 ft² (9.1 m²)	75 ft² (7 m²)
12" x 24" x 3/8" (30.5 x 61 x 1 cm)	461 ft² (42.8 m²)	310 ft² (28.8 m²)	234 ft² (21.7 m²)	158 ft² (14.7 m²)	121 ft² (11.2 m²)
6" x 36" x 3/8" (15.2 x 91.4 x 1 cm)	299 ft² (27.8 m²)	202 ft² (18.7 m²)	153 ft² (14.2 m²)	104 ft² (9.7 m²)	80 ft² (7.4 m²)
9 x 36" x 3/8" (22.9 x 91.4 x 1 cm)	416 ft² (38.6 m²)	279 ft² (26 m²)	211 ft² (19.6 m²)	143 ft² (13.3 m²)	109 ft² (10.2 m²)
12" x 48" x 3/8" (30.5 x 122 x 1 cm)	552 ft² (51.3 m²)	370 ft² (34.4 m²)	279 ft² (26 m²)	189 ft² (17.5 m²)	143 ft² (13.3 m²)

For 7 lb bag of Polyblend (sq ft/sq m per bag)

Tile Size	**Joint Width**				
Width x Length x Thickness	**1/8" (3 mm)**	**3/16" (4.8 mm)**	**1/4" (6.3 mm)**	**3/8" (9.5 mm)**	**1/2" (13 mm)**
1" x 1" x 1/4" (2.5 x 2.5 x .64 cm)	15 ft² (1.4 m²)	11 ft² (1 m²)	9 ft² (.9 m²)	8 ft² (.7 m²)	7 ft² (.6 m²)
2" x 2" x 1/4" (5 x 5 x .64 cm)	27 ft² (2.5 m²)	19 ft² (1.8 m²)	15 ft² (1.4 m²)	11 ft² (1 m²)	9 ft² (.9 m²)
3" x 3" x 1/4" (7.6 x 7.6 x .64 cm)	39 ft² (3.6 m²)	27 ft² (2.5 m²)	21 ft² (1.9 m²)	15 ft² (1.4 m²)	12 ft² (1.1 m²)
4.25" x 4.25" x 1/4" (10.8 x 10.8 x .64 cm)	54 ft² (5 m²)	37 ft² (3.4 m²)	28 ft² (2.6 m²)	20 ft² (1.9 m²)	16 ft² (1.5 m²)
6" x 6" x 1/4" (15.2 x 15.2 x .64 cm)	74 ft² (6.9 m²)	51 ft² (4.7 m²)	39 ft² (3.6 m²)	27 ft² (2.5 m²)	21 ft² (1.9 m²)
8" x 8" x 3/8" (20.3 x 20.3 x 1 cm)	66 ft² (6.1 m²)	44 ft² (4.1 m²)	34 ft² (3.1 m²)	23 ft² (2.2 m²)	18 ft² (1.7 m²)
12" x 12" x 3/8" (30.5 x 30.5 x 1 cm)	97 ft² (9 m²)	66 ft² (6.1 m²)	50 ft² (4.6 m²)	34 ft² (3.1 m²)	26 ft² (2.4 m²)
16" x 16" x 3/8" (40.6 x 40.6 x 1 cm)	129 ft² (12 m²)	87 ft² (8.1 m²)	66 ft² (6.1 m²)	44 ft² (4.1 m²)	34 ft² (3.1 m²)
18" x 18" x 3/8" (45.7 x 45.7 x 1 cm)	145 ft² (13.5 m²)	97 ft² (9 m²)	73 ft² (6.8 m²)	50 ft² (4.6 m²)	38 ft² (3.5 m²)
20" x 20" x 3/8" (50.8 x 50.8 x 1 cm)	161 ft² (14.9 m²)	108 ft² (10 m²)	81 ft² (7.6 m²)	55 ft² (5.1 m²)	42 ft² (3.9 m²)
24" x 24" x 3/8" (61 x 61 x 1 cm)	193 ft² (17.9 m²)	129 ft² (12 m²)	97 ft² (9 m²)	66 ft² (6.1 m²)	50 ft² (4.6 m²)
6" x 24" x 3/8" (15.2 x 61 x 1 cm)	78 ft² (7.3 m²)	53 ft² (4.9 m²)	40 ft² (3.7 m²)	27 ft² (2.5 m²)	21 ft² (2.0 m²)
12" x 24" x 3/8" (30.5 x 61 x 1 cm)	129 ft² (12 m²)	87 ft² (8.1 m²)	66 ft² (6.1 m²)	44 ft² (4.1 m²)	34 ft² (3.1 m²)
6" x 36" x 3/8" (15.2 x 91.4 x 1 cm)	84 ft² (7.8 m²)	56 ft² (5.2 m²)	43 ft² (4 m²)	29 ft² (2.7 m²)	22 ft² (2.1 m²)
9 x 36" x 3/8" (22.9 x 91.4 x 1 cm)	116 ft² (10.8 m²)	78 ft² (7.3 m²)	59 ft² (5.5 m²)	40 ft² (3.7 m²)	31 ft² (2.8 m²)
12" x 48" x 3/8" (30.5 x 122 x 1 cm)	155 ft² (14.4 m²)	104 ft² (9.6 m²)	78 ft² (7.3 m²)	53 ft² (4.9 m²)	40 ft² (3.7 m²)

Chart for estimating purposes. Coverage may vary based on installation practices and jobsite conditions. For more tile and joint sizes, use the Material Calculator at CustomBuildingProducts.com or contact CUSTOM Technical Services at 800-282-8786.

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